

SABIC Innovative Plastics Valox® EH7020HF PBT+PET (Asia Pacific)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PET + PBT Unreinforced , Polyethylene Terephthalate (PET)

Material Notes:

Valox EH7020HF is a mineral filled PBT/PET that offers good surface appearance, high flow and good heat performance. EH7020HF was developed for automotive bezel application that require basecoat + top coat metalization. EH7020HF is higher flow version of EH7020.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-EH7020HF-PBTPET-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Moisture Absorption	0.420 %	0.420 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.42 %	0.42 %	ISO 62
Linear Mold Shrinkage, Flow	0.0153 - 0.0157 cm/cm	0.0153 - 0.0157 in/in	on Tensile Bar; SABIC Method
	0.0103 - 0.0105 cm/cm @Thickness 3.20 mm	0.0103 - 0.0105 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0114 - 0.0118 cm/cm	0.0114 - 0.0118 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	36 g/10 min	36 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 266 °C	@Load 2.65 lb, Temperature 511 °F	
	64 g/10 min	64 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 265 °C	@Load 4.76 lb, Temperature 509 °F	
Melt Index of Compound	52 g/10 min	52 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 265 °C	@Load 4.76 lb, Temperature 509 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638
	57.0 MPa	8270 psi	5 mm/min; ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	5 mm/min; ISO 527
	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Elongation at Break	1.9 %	1.9 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	8.0 %	8.0 %	SABIC - Japan Method
Elongation at Yield	1.5 %	1.5 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.80 GPa	696 ksi	1 mm/min; ISO 527
	5.88 GPa	853 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	93.0 MPa	13500 psi	1.3 mm/min, 50 mm span; ASTM D790
	96.0 MPa	13900 psi	2 mm/min; ISO 178
	96.0 MPa	13900 psi	6.4 mm; ASTM D790
Flexural Modulus	4.68 GPa	679 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.71 GPa	683 ksi	2 mm/min; ISO 178
	4.86 GPa	705 ksi	6.4 mm; ASTM D790
Izod Impact, Notched	0.310 J/cm	0.581 ft-lb/in	ASTM D256
	0.310 J/cm	0.581 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	2.00 kJ/mÂ²	0.952 ft-lb/inÂ²	80*10*4; ISO 180/1A
	2.00 kJ/mÂ²	0.952 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.200 J/cmÂ²	0.952 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	4.00 J	2.95 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	52.9 Âµm/m-Â°C	29.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ASTM E 831

Thermal Properties	Metric μm/m-°C	English in/in-°F	Comments
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	62.0 μm/m-°C	34.4 in/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	62.0 μm/m-°C	34.4 in/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Hot Ball Pressure Test	75.0 °C	167 °F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	89.0 °C	192 °F	
	70.0 °C	158 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	179 °C	354 °F	Rate B/120; ISO 306
	180 °C	356 °F	Rate B/50; ASTM D1525
	180 °C	356 °F	Rate B/50; ISO 306

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